

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.: MO-0096873

Owner: General Electric Transportation Systems Global Signaling, LLC.
Address: P.O. Box 600, Grain Valley, MO 64029

Continuing Authority: Same as above
Address: Same as above

Facility Name: General Electric Transportation Systems Global Signaling, LLC
Address: Box 600, 30601 East Argo Road, Grain Valley, MO 64029

Legal Description: NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 15, T49N, R30W, Jackson County

Receiving Stream & Basin: Tributary to Sni-A-Bar Creek (U)
First Classified Stream and ID: Sni-A-Bar Creek (P)
USGS Basin & Sub-watershed No.: 10300101-110002

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - Non-Contact Cooling Water/Domestic Wastewater - SIC #3662, #3669, & #3679
Extended aeration/effluent is pumped to receiving stream/sludge disposal by contract hauler.

Design population equivalent is 290.

Design flow is 29,000 gallons per day.

Actual flow is 14,714 gallons per day.

Design sludge production is 6.09 dry tons/year.

Outfall #002 & #003 - These outfalls have been eliminated

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

September 17, 2004

Effective Date


Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

September 16, 2009

Expiration Date
MO 780-0041 (10-93)


James R. Macy, Director, Kansas City Regional Office

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|--|-------|----------------------------|-------------------|--------------------|--------------------------|---------------------|
| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PERMIT NUMBER MO-0096873 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| Outfall #001 Flow | MGD | * | | * | once/quarter*** | 24 hr. estimate |
| Biochemical Oxygen Demand ₅ **** | mg/L | | 45 | 30 | once/quarter*** | 24 hr. composite |
| Total Suspended Solids**** | mg/L | | 45 | 30 | once/quarter*** | 24 hr. composite |
| pH - Units | SU | ** | | ** | once/quarter*** | grab |
| Oil and Grease | mg/L | 15 | | 10 | once/quarter*** | grab |
| Ammonia, as Nitrogen | mg/L | 22 | | * | once/quarter*** | grab |
| Cyanide (Amenable to Chlorination) | mg/L | * | | * | once/quarter*** | 24 hr. composite |
| Copper, Total Recoverable | mg/L | * | | * | once/quarter*** | 24 hr. composite |
| Zinc, Total Recoverable | mg/L | * | | * | once/quarter*** | 24 hr. composite |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>January 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- *** Sample once per quarter in the months of March, June, September, and December.
- **** This facility is required to meet a removal efficiency of 85% or more.

C. SPECIAL CONDITIONS

1. This permit may be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C), and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

- (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- (b) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

2. All outfalls must be clearly marked in the field.

3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

4. This permit may be reopened and modified or alternatively revoked and reissued, to incorporate new or modified effluent limitations or other conditions, if the result of a wasteload allocation study, toxicity test, or other information indicates changes are necessary to ensure compliance with Missouri's Water Quality Standards.

5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 ug/L);
 - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

6. Report as no-discharge when a discharge does not occur during the report period.

C. SPECIAL CONDITIONS (continued)

7. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
8. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
9. Industrial Sludge Disposal
- (a) Disposal of industrial sludge is not authorized by this permit. Industrial sludge shall be disposed at a permitted solid waste disposal facility in accordance with 10 CSR 80; or if the sludge is determined to be hazardous waste, shall be disposed at a permitted hazardous waste disposal facility pursuant to 10 CSR 25.
 - (b) Non-hazardous sludge that is disposed on site or that is exempted under 10 CSR 80 must obtain applicable permits under 10 CSR 20-6.015 and 10 CSR 20-6.200.
 - (c) Each effluent monitoring report shall also specify the date any sludge is removed from the facility, who removed the sludge and the number of gallons or quantity of sludge removed. The final disposal location shall be reported, including the name of the disposal facility, the solid waste or hazardous waste disposal permit number, and date of permit issuance.
 - (d) This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act.
10. On two different occasions, process water generated in the course of drilling soil borings and monitoring wells of about 600 gallons were introduced as a "one time only" discharge. Any additional discharge requests will require a request for modification of this permit.

Date of Fact Sheet: July 27, 2004

Date of Public Notice: August 13, 2004

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0096873

FACILITY NAME: General Electric Transportation Systems Global Signaling,
LLC (formerly Harmon Electronics)
OWNER NAME: General Electric Transportation Systems Global Signaling,
LLC

LOCATION: Sec. 15 & 16 T49N R30W County: Jackson

RECEIVING STREAM: Outfall #001-Unnamed Tributary to Sni-A-Bar Creek

FACILITY CONTACT PERSON: Mr. Rich Rankin

TELEPHONE: (816) 747-8030 x2701

FACILITY DESCRIPTION AND RATIONALE

The Federal Water Pollution Control Act established the National Pollutant Discharge Elimination System (NPDES) program in order to regulate discharges of pollutants from point sources into the waters of the United States. All such discharges are unlawful without a permit, and discharges not in compliance with all permit terms and conditions are unlawful. NPDES permits in Missouri are issued by the Department of Natural Resources.

Outfall #001 is the effluent discharge from an extended aeration plant with a design flow of 29,000 gallons per day that treats domestic wastewater.

The facility has eliminated industrial wastewater by changing the method of soldering to a "no clean" solder method. The water to the old "wave" solder system was physically disconnected. Thus, industrial wastewater has been eliminated from any waste stream going to the wastewater treatment plant.

This permit will be issued for a period of five years.